IN THE CLAIMS

Please amend claim 13 and add new dependent claims 14-20.

1. (Original) An active noise attenuation system comprising:

an air inlet duct housing having an inlet end into which air is drawn and an outlet end operably connected to an engine;

a sound detector for sensing noise emanating from said air inlet duct and generating a noise signal corresponding to said noise;

a speaker mounted within said air inlet duct housing and facing said inlet end;

a resonator supported by said housing and positioned between said speaker and said engine for reducing low frequency engine noise; and

a controller for receiving and phase shifting said noise signal and sending a control signal to said speaker to generate a sound field to attenuate said noise.

- (Original) A system according to claim 1 wherein said resonator attenuates said low frequency noise resulting in an attenuated engine noise level and said sound detector senses said attenuated engine noise level.
- 3. (Original) A system according to claim 1 including an air filter for filtering contaminants from the air, said filter being positioned behind said speaker.
- (Original) A system according to claim 3 wherein said resonator is mounted to said filter.

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- 5. (Original) A system according to claim 4 wherein said filter is cylindrically shaped with a first end fitting over said resonator and a second end fitting over said outlet end.
- 6. (Original) A system according to claim 3 wherein said resonator extends outwardly from said housing between said filter and said engine.
- 7. (Original) A system according to claim 1 wherein said resonator reduces low frequency engine noise within a predetermined range.
- 8. (Original) A system according to claim 7 wherein said speaker is less than four hundred millimeters in diameter.
- 9. (Original) An active noise attenuation system comprising: an engine for generating low frequency noise having a profile defining a peak noise; an air inlet duct housing having an inlet into which air is drawn and an outlet operably connected to said engine;

a speaker mounted within said air inlet duct housing and facing said inlet;

an air filter mounted within said housing between said inlet and outlet for filtering contaminants from the air;

a resonator supported by said housing and positioned between said speaker and said engine for attenuating said peak noise resulting in an attenuated low frequency engine noise;

a sound detector for sensing said attenuated low frequency engine noise and generating an attenuated low frequency engine noise signal; and

a controller for receiving and phase shifting said attenuated low frequency engine noise signal and sending a control signal to said speaker to generate a sound field to attenuate said attenuated low frequency engine noise signal.

- 10. (Original) A system according to claim 9 wherein said resonator attenuates said peak noise within a predetermined range.
- 11. (Original) A system according to claim 10 wherein said speaker is less than four hundred millimeters in diameter.
- 12. (Original) A system according to claim 10 wherein said filter is cylindrically shaped with a first end fitting over said resonator and a second end fitting over said outlet end.
- 13. (Currently Amended) A system according to claim [20] 10 wherein said resonator extends radially outward from said housing between said filter and said engine.
- 14. (New) A system according to claim 3 wherein said air filter is substantially enclosed by said air inlet duct housing.

- 15. (New) A system according to claim 14 wherein said resonator includes a resonator structure defining a hollow resonator chamber, said resonator structure being supported by said air inlet duct housing between said speaker and said outlet end.
- 16. (New) A system according to claim 14 wherein said resonator is supported directly by said air filter within said air inlet duct housing.
- 17. (New) A system according to claim 1 wherein said resonator attenuates a first frequency of engine noise and said speaker, sound detector, and controller cooperate to attenuate a second frequency of engine noise with said second frequency of engine noise being lower than said first frequency of engine noise.
- 18. (New) A system according to claim 9 wherein said speaker comprises a single speaker with said sound detector being positioned between said speaker and said inlet and wherein said resonator and said air filter are positioned between said speaker and said outlet.
- 19. (New) A system according to claim 18 wherein said air filter is enclosed within said air inlet duct housing.
- 20. (New) A system according to claim 9 wherein said resonator is supported directly by said air filter within said air inlet duct housing.